

What is claimed is:

1. A fuel cell stack comprising:

a stacked body having a plurality of stacked unit fuel cells, each unit fuel cell being placed between and supported by a pair of separators, wherein each unit fuel cell has an anode, a cathode, and an electrolyte membrane which is placed between the
5 anode and the cathode;

fastening plates provided at either end of the stacked body in the stacking direction of the stacked body;

an intermediate plate provided at an intermediate position of the stacked body in the stacking direction; and

10 bolt members inserted through the intermediate plate in the stacking direction in a manner such that the movement of the bolt members with respect to the intermediate plate in the direction perpendicular to the stacking direction is restricted so as to fix the relative position between the intermediate plate and the bolt members in the relevant direction,

15 wherein the bolt members are also inserted through the fastening plates in the stacking direction, and the stacked body is fastened together by fastening the fastening plates towards the center of the fastening plates by using the bolt members.

2. A fuel cell stack as claimed in claim 1, wherein the movement of the bolt members with respect to the intermediate plate in the stacking direction is also restricted so as to fix the relative position between the intermediate plate and the bolt members in the relevant direction.

3. A fuel cell stack as claimed in claim 1, wherein:
- each bolt member has a fitting portion; and
- the intermediate plate has a fitting hole into which the fitting portion of the bolt member is fit.

5

4. A fuel cell stack as claimed in claim 2, wherein:
- each bolt member has a fitting portion; and
- the intermediate plate has a fitting hole into which the fitting portion of the bolt member is fit, wherein:

5 the fitting portion has a flange portion and the fitting hole has a corresponding step portion so as to restrict the movement of the bolt members with respect to the intermediate plate in the stacking direction.

5. A fuel cell stack as claimed in claim 1, wherein a plurality of intermediate plates through which the bolt members are inserted are provided, wherein the movement of the bolt members in the direction perpendicular to the stacking direction is restricted so as to fix the relative position between the intermediate plates and the bolt members in the relevant direction.

6. A fuel cell stack as claimed in claim 5, wherein the movement of the bolt members with respect to the intermediate plates in the stacking direction is also restricted so as to fix the relative position between the intermediate plates and the bolt members in the relevant direction.

5

7. A fuel cell stack as claimed in claim 1, wherein the intermediate plate is

provided approximately at the center of the stacked body in the stacking direction.

8. A fuel cell stack as claimed in claim 1, wherein the bolt members are also inserted through the stacked body in the stacking direction.

